

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES PARTIAL RECONSTRUCTION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF U.S. 301 AND GOVERNORS BRIDGE ROAD AND HARBOUR WAY IN PRINCE GEORGES COUNTY. U.S. 301 IS ASSUMED TO RUN IN AN NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA SIX-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH THE U.S. 301 APPROACHES OPERATING CONCURRENTLY AND THE GOVERNORS BRIDGE ROAD AND HARBOUR WAY APPROACHES WILL OPERATE AS A SIDE STREET SPLIT.

EXCLUSIVE LEFT-TURN PHASING IS PROVIDED FOR NORTHBOUND AND SOUTHBOUND U.S. 301 APPROACHES.

A RIGHT TURN OVERLAP IS PROVIDED FOR GOVERNORS BRIDGE ROAD.

CONTROLLER REQUIREMENTS

THE EXISTING BASE MOUNTED CABINET AND CONTROLLER WILL BE USED.

MAINTENANCE OF TRAFFIC

THE FOLLOWING TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT.

STANDARD NO. MD-104.00 - 104.00-30
STANDARD NO. MD-104.37-01 (LEFT LANE CLOSURE)
STANDARD NO. MD-104.38-01 (RIGHT LANE CLOSURE)
STANDARD NO. MD-104.41-01 (INTERSECTION FAR-RIGHT LANE CLOSURE)
STANDARD NO. MD-104.43-01 (SHOULDER WORK)
STANDARD NO. MD-104.44-01 (LEFT LANE CLOSURE)

STANDARD NO. MD-104.45-01 (RIGHT LANE CLOSURE)
STANDARD NO. MD-104.46-01 (CENTER LANE CLOSURE)
STANDARD NO. MD-104.48-01 (INTERSECTION TURN BAY LANE CLOSURE)
STANDARD NO. MD-104.49-01 (SHOULDER WORK)

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

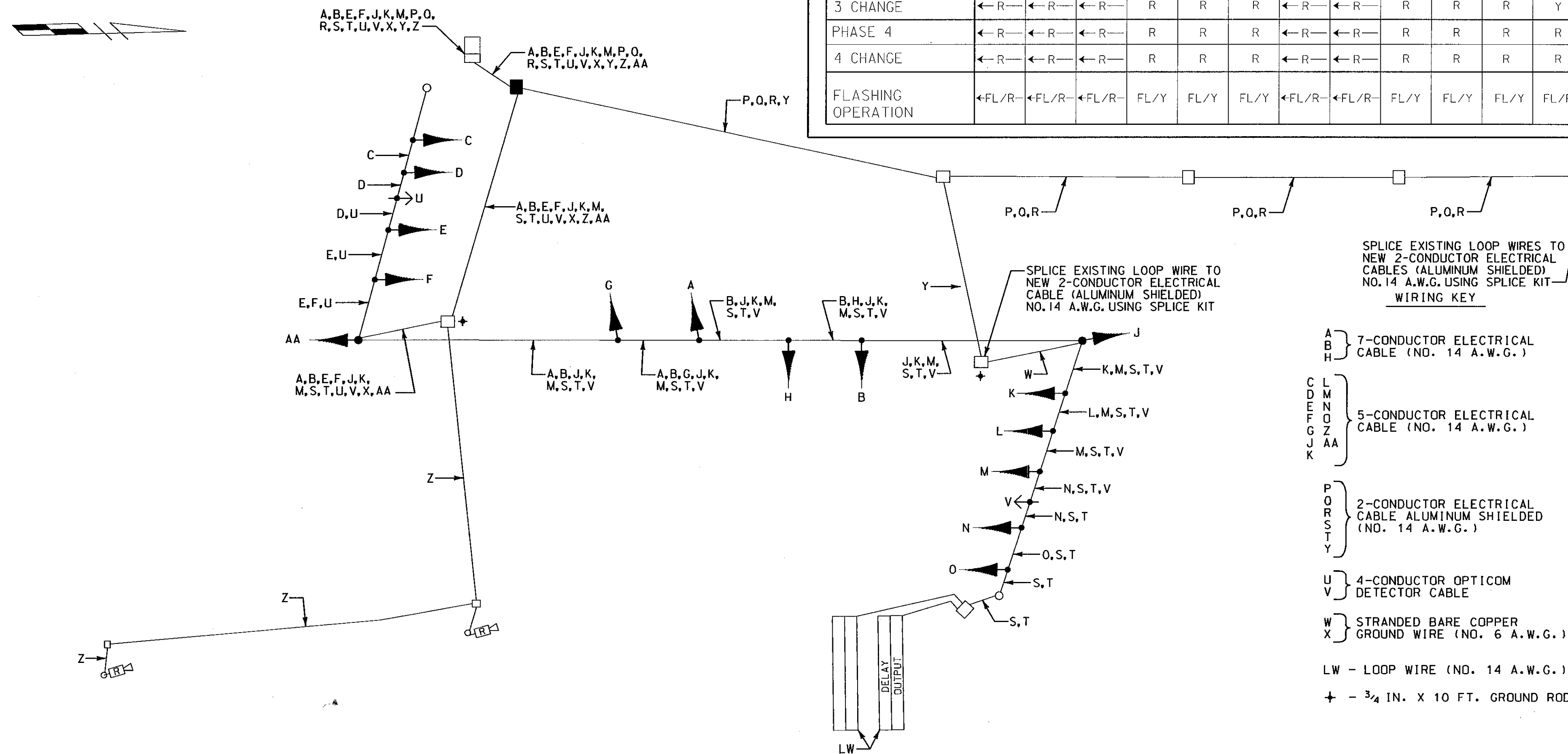
MR. MAJIB SHAKIB
ASSISTANT DISTRICT ENGINEER - TRAFFIC
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MR. AUGIE REBISH
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PHONE: (301) 513-7350

MR. RALEIGH MEDLEY
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (301) 513-7304

MR. RICHARD L. DAFF, SR.
CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

WIRING DIAGRAM



EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

ITEM NO.	QUANTITY	DESCRIPTION
9571	118 S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF :
		- 2 EACH D-3(1) SIGN (VARIABLE x 16 IN.) DUAL FACED - SPAN MOUNT
		- 4 EACH R3-5 SIGN (30 IN. x 36 IN.) - SPAN MOUNT
		- 1 EACH R10-11b SIGN (24 IN. x 24 IN.) - SPAN MOUNT
		- 1 EACH R3-6 MOD. SIGN (42 IN. x 36 IN.) - SPAN MOUNT
		- 1 EACH M3-1 SIGN (24 IN. x 12 IN.) - GROUND MOUNT
		- 1 EACH M3-3 SIGN (24 IN. x 12 IN.) - GROUND MOUNT
		- 2 EACH M1-4 SIGN (30 IN. x 24 IN.) - GROUND MOUNT
		- 2 EACH M6-1(R) SIGN (21 IN. x 15 IN.) - GROUND MOUNT
		- 1 EACH ASSOCIATED SHIELD ASSEMBLY (48 IN. x 75 IN.) - POLE MOUNT
9010	2 EACH	- 12" x 32' STRAIN POLE (2 1/4" x 96" ANCHORS INCLUDED)

EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA
ALL REMOVED SIGNAL MATERIALS SHALL BECOME PROPERTY OF THE CONTRACTOR

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
PHASE 1 + 5	←G	←G	←G	R	R	R	←G	←G	R	R	R	R	R	R	R
1 + 5 CHANGE	←G	←G	←G	G	G	G	←R	←R	R	R	R	R	R	R	R
PHASE 1 + 6	←G	←G	←G	G	G	G	←R	←R	R	R	R	R	R	R	R
1 + 6 CHANGE	←Y	←Y	←Y	G	G	G	←R	←R	R	R	R	R	R	R	R
PHASE 2 + 5	←R	←R	←R	R	R	R	←G	←G	G	G	G	R	R	R	R
2 + 5 CHANGE	←R	←R	←R	R	R	R	←Y	←Y	G	G	G	R	R	R	R
PHASE 2 + 6	←R	←R	←R	G	G	G	←R	←R	G	G	G	R	R	R	R
2 + 6 CHANGE	←R	←R	←R	Y	Y	Y	←R	←R	Y	Y	Y	R	R	R	R
PHASE 3	←R	←R	←R	R	R	R	←R	←R	R	R	R	←G	G	R	R
3 CHANGE	←R	←R	←R	R	R	R	←R	←R	R	R	R	Y	Y	R	R
PHASE 4	←R	←R	←R	R	R	R	←R	←R	R	R	R	R	R	←G	G
4 CHANGE	←R	←R	←R	R	R	R	←R	←R	R	R	R	R	R	Y	Y
FLASHING OPERATION	←FL/R	←FL/R	←FL/R	FL/Y	FL/Y	FL/Y	←FL/R	←FL/R	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EACH	MAINTENANCE OF TRAFFIC
2002	2 C.Y.	TEST PIT EXCAVATION
5001	240 L.F.	REMOVAL OF EXISTING PAVEMENT LINE MARKINGS - ANY WIDTH
5002	2 EACH	REMOVE EXISTING PAVEMENT MARKING LETTERS, SYMBOLS, ARROWS AND NUMBERS
5006	210 L.F.	24 INCH WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING
5008	2 EACH	HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING ARROW
8000 (NEG)	2 EACH	REMOVE AND DISPOSE FOUNDATION 12 IN. BELOW GRADE
8001	10 C.Y.	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
8006	1 EACH	INSTALL CONDUIT BEND IN EXISTING FOUNDATION (UP TO 4 INCHES)
8019	1 EACH	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT AS PER ASSIGNMENT
8027	40 L.F.	FURNISH AND INSTALL WOOD SIGN SUPPORTS 4 IN. x 4 IN.
8029	160 L.F.	FURNISH AND INSTALL NO. 6 A.W.G. STRANDED BARE COPPER GROUND WIRE
8035	210 L.F.	FURNISH AND INSTALL 3 IN. SCHEDULE 80 RIGID PVC CONDUIT - BORED
8036	90 L.F.	FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID PVC CONDUIT - BORED
8038	20 L.F.	FURNISH AND INSTALL 3 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8039	40 L.F.	FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8043	20 L.F.	FURNISH AND INSTALL 1 INCH LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR WIRE SLEEVE
8052	1 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8054	24 S.F.	INSTALL GROUND MOUNTED SIGNS
8055	94 S.F.	INSTALL OVERHEAD SIGN
8059	2 EACH	FURNISH AND INSTALL 3M OPTICOM #721 DETECTOR EYE
8073	2 EACH	FURNISH AND INSTALL GROUND ROD - 3/4 INCH DIAMETER x 10 FOOT LENGTH
8075	49 EACH	FURNISH AND INSTALL 12 IN. VEHICULAR TRAFFIC SIGNAL HEAD SECTION
8077	530 L.F.	FURNISH AND INSTALL 4-CONDUCTOR OPTICOM CABLE
8080	2700 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (ALUMINUM SHIELDED)
8083	2350 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.)
8084	620 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.)
8086	1100 L.F.	FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 A.W.G.)
8087	300 L.F.	FURNISH AND INSTALL SAW CUT FOR SIGNAL (LOOP DETECTOR)
8090	2 EACH	INSTALL STRAIN POLE, ANY SIZE
8091	420 L.F.	FURNISH AND INSTALL STEEL SPANWIRE - 1/4 IN. DIAMETER
8092	420 L.F.	FURNISH AND INSTALL STEEL SPAN WIRE - 3/8 IN. DIAMETER



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION SHEET
U.S. 301 (CRAIN HWY) AND
GOVERNORS BRIDGE RD/HARBOUR WAY

DRAWN BY: S.BLOSS	F.A.P. NO.	TS. NO.
CHECKED BY: N.LEARY	S.H.A. NO.	SHEET NO.
SCALE: NONE	COUNTY: PRINCE GEORGES	T.I.M.S. NO.
DATE: 6/18/2003	LOG MILE:	F352

WR&A
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